

Nucleon Optical Potential in Brueckner Theory

Wasi Haider

Department of Physics, AMU, Aligarh, Aligarh, India.
Email: wasi42001@gmail.com

Abstract: Recent results of g-matrix calculation of the nucleon optical potential are presented and their predictions are compared with experimental data for Sn-isotopes. Corrections to spin-orbit part of the potential are discussed. Extension of Bethe's method to calculate three nucleon interaction effects in the nucleon optical potential is presented.